IN THE CLAIMS

This listing of claims replaces all prior listings:

1. (currently amended) A person authentication application data processing system which performs a person authentication process by comparing a template extracted from a person identification certificate, the template including person identification data of an individual user who uses an information processing apparatus, and user input sampling information, said person authentication application data processing system comprising:

an information processing apparatus configured to perform person authentication;

a service distribution device configured to receive various services from a service provider under the control of a service registration server when the service distribution device is registered with the service registration server; and

a person identification certificate unit configured to issue person identification certificates,

wherein,

said information processing apparatus is configured to retrieve a person identification certificate for person authentication from the local storage device based on user input information, ,

the information processing apparatus is configured to request the person identification certificate unit issue a new person identification certificate if the person identification certificate does exist in the local storage device,

said person identification certificate unit is configured to issue a new person identification certificate including an encrypted template, which can be decrypted in said

information processing apparatus, in response to the request from the information

processing apparatus, ~~and~~

said information processing apparatus is configured to receive the person

identification certificate from the person identification unit and store the person

identification certificate issued from said person identification certificate unit in the local

storage device of the information processing apparatus remotely from the server.

2. (Previously Presented) A person authentication application data processing system

according to Claim 1, wherein,

said information processing apparatus creates a pair of identifiers of each person

identification certificate and stores the pair of identifiers in the storage device when said newly

obtained person identification certificate is a person identification certificate corresponding to

the same user for an existing public key certificate which has already been stored in said

information processing apparatus,

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3. (Previously Presented) A person authentication application data processing system

according to Claim 1, further comprising

a certificate unit that issues public key certificates,

wherein,

said information processing apparatus retrieves a public key certificate used during data

communication with an external apparatus, with stored data of the storage device of the

information processing apparatus being used as the retrieval target on the basis of the user input information,

said information processing apparatus is configured to (a) create a public key and a secret key when the applicable public key certificate cannot be extracted, (b) transmit the created public key to the person identification certificate unit (c) make a request for issuing a person identification certificate,(d) issue a public key certificate corresponding to an individual user or a public key certificate corresponding to said information processing apparatus, and (e) store the public key certificate issued from said certificate unit in the local storage device of the information processing apparatus.

4. (currently amended) A person authentication application data processing system according to Claim 3, wherein, said information processing apparatus creates pair information of identifiers of each certificate and stores the pair information in the storage device when said newly obtained person identification certificate is a person identification certificate corresponding to the same user for an existing public key certificate which has already been stored in said information processing apparatus,.

5. (Previously Presented) A person authentication application data processing system according to Claim 3, wherein,

said information processing apparatus creates identifiers of each certificate, stores the pair information in the local storage device, and registers a process identifier which identifies a process including services to be used when said newly obtained person identification certificate is a person identification certificate corresponding to the same user for an existing public key certificate which has already been stored in said information processing apparatus,.

6. (Previously Presented) A person authentication application data processing system according to Claim 1, further comprising

a service distribution device configured to receive various services from a service provider under the control of a service registration server when the service distribution device is registered with the service registration server,

wherein,

said information processing apparatus performs a person authentication process based on a verification process between the template extracted from the person identification certificate and user input sampling information, the template being person identification data of an individual user who uses the information processing apparatus, and performs user registration for said service registration server on the condition that person authentication is established.

7. (currently amended) A person authentication application data processing system according to Claim 1~~, further comprising~~

~~a service distribution device configured to receive various services from a service provider under the control of a service registration server when the service distribution device is registered with the service registration server,~~

wherein,

said information processing apparatus performs a mutual authentication with said service provider by using a public key certificate corresponding to an individual user or a public key certificate corresponding to said information processing apparatus in a process for receiving service distribution from said service provider, and

said service provider provides services for said information processing apparatus upon confirmation that the public key certificate used for said mutual authentication corresponds to an authorized user or device registered in said service registration server and said mutual authentication is established.

8. (Previously Presented) A person authentication application data processing system according to Claim 1, wherein data communication between said information processing apparatus as a person authentication execution entity and the person identification certificate unit as a person identification certificate issuing entity is performed on the condition that a mutual authentication process is established.

9. (Previously Presented) A person authentication application data processing system according to Claim 1, wherein,

a data transmission device creates an electronic signature for transmission data, and

a receiving device verifies the electronic signature for data communication between said information processing apparatus as a person authentication execution entity and the person identification certificate unit as a person identification certificate issuing entity,.

10. (Previously Presented) A person authentication application data processing system according to Claim 1, wherein an encryption key used to encrypt the template stored in the person identification certificate issued from said person identification certificate unit is a public key which is set for said information processing apparatus or an individual user.

11. (previously presented) A person authentication application data processing system according to Claim 1, wherein said template includes at least one of biometric information and non-biometric information and a password, the biometric information selected from the group

consisting of fingerprint information, retina pattern information, iris pattern information, voice

print information, and handwriting information, the non-biometric information selected from the

group consisting of such as a seal, a passport, a driver's license, and a card.

12. (Withdrawn) A person authentication application data processing method for

performing a person authentication process by comparing a template extracted from a person

identification certificate, the template including person identification data of an individual user

who uses an information processing apparatus and user input sampling information, said person

authentication application data processing method comprising:

a step for providing an information processing apparatus as a person authentication

execution entity and a person identification certificate authority as a person identification

certificate issuing entity;

a step in which said information processing apparatus retrieves a person identification

certificate for person authentication based on user input information, and, when the information

processing apparatus determines that the person identification certificate has not been received

from the person identification certificate authority and stored locally in a local storage device of

the information processing apparatus, outputs a request for issuing a person identification

certificate to the person identification certificate authority which is a person identification

certificate issuing entity;

a step in which said person identification certificate authority creates a person

identification certificate including an encoded template, which can be decrypted in said

information processing apparatus, and issues the person identification certificate responsive to

the request from the information processing apparatus; and

a step in which said information processing apparatus stores the person identification certificate issued from said person identification certificate authority in the storage device of the information processing apparatus.

13. (Withdrawn) A person authentication application data processing method according to Claim 12, wherein, when said information processing apparatus stores a newly obtained person identification certificate in the storage device, and when said newly obtained person identification certificate is a person identification certificate corresponding to the same user for an existing public key certificate which has already been stored in said information processing apparatus, said information processing apparatus creates pair information of identifiers of each person identification certificate and stores the pair information in the storage device.

14. (Withdrawn) A person authentication application data processing method according to Claim 12, further comprising:

a step for providing a certificate authority as a public key certificate issuing entity;

a step in which said information processing apparatus retrieves a public key certificate used during data communication with an external apparatus, with stored data of the storage device of the information processing apparatus being used as the retrieval target on the basis of the user input information, creates a pair of a public key and a secret key when the applicable public key certificate cannot be extracted, transmits the created public key to the person identification certificate authority which is the issuing entity of the public key certificate, and makes a request for issuing a person identification certificate;

a step in which said person identification certificate authority issues a public key

certificate corresponding to an individual user or a public key certificate corresponding to said

information processing apparatus; and

a step in which said information processing apparatus stores the public key certificate

issued from said certificate authority in the storage device of the information processing

apparatus.

15. (Withdrawn) A person authentication application data processing method according

to Claim 14, wherein, in the process for storing the newly obtained person identification

certificate in the storage device, when said newly obtained person identification certificate is a

person identification certificate corresponding to the same user for an existing public key

certificate which has already been stored in said information processing apparatus, said

information processing apparatus creates pair information of identifiers of each certificate and

stores the pair information in the storage device.

16. (Withdrawn) A person authentication application data processing method according

to Claim 14, wherein, in the process for storing the newly obtained person identification

certificate in the storage device, when said newly obtained person identification certificate is a

person identification certificate corresponding to the same user for an existing public key

certificate which has already been stored in said information processing apparatus, said

information processing apparatus creates pair information of identifiers of each certificate, stores

the pair information in the storage device, and registers a process identifier which identifies a

process including services to be used.

17. (Withdrawn) A person authentication application data processing method according to Claim 12, further comprising:

a step for providing a service distribution device in which various services such as content distribution can be received from a service provider under the control of a service registration server on the condition of user registration for the service registration server; and

a step in which said information processing apparatus performs a person authentication process based on a verification process between a template extracted from the person identification certificate and user input sampling information, the template being person identification data of an individual user who uses the information processing apparatus, and performs user registration for said service registration server on the condition that person authentication is established.

18. (Withdrawn) A person authentication application data processing method according to Claim 12, further comprising:

a step for providing a service distribution device in which various services such as content distribution can be received from a service provider under the control of a service registration server on the condition of user registration for the service registration server;

a step in which, in a process for receiving service distribution from said service provider, said information processing apparatus performs mutual authentication with said service provider by using a public key certificate corresponding to an individual user who uses the information processing apparatus or a public key certificate corresponding to said information processing apparatus; and

a step in which said service provider provides services for said information processing

apparatus on the condition that it is confirmed that the public key certificate used for said mutual

authentication corresponds to an authorized user or device registered in said service registration

server and said mutual authentication is established.

19. (Withdrawn) A person authentication application data processing method according

to Claim 12, wherein data communication between said information processing apparatus as a

person authentication execution entity and the person identification certificate authority as a

person identification certificate issuing entity is performed on the condition that the mutual

authentication process is established.

20. (Withdrawn) A person authentication application data processing method according

to Claim 12, wherein, for data communication between said information processing apparatus as

a person authentication execution entity and the person identification certificate authority as a

person identification certificate issuing entity, a data transmission device creates an electronic

signature for transmission data, and a receiving device verifies the electronic signature.

21. (Withdrawn) A person authentication application data processing method according

to Claim 12, wherein an encryption key used to encrypt the template stored in the person

identification certificate issued from said person identification certificate authority is a public

key which is set for said information processing apparatus or an individual user.

22. (Withdrawn) An information processing apparatus for performing a person

authentication process based on a verification process between a template extracted from a

person identification certificate in which the template is stored and user input sampling

information, the template being person identification data of an individual user who uses the information processing apparatus,

wherein said information processing apparatus performs a process for retrieving a person identification certificate used for a person authentication process based on user input information with stored data of the information processing apparatus being used as the retrieval target, outputs a request for issuing a person identification certificate to a person identification certificate authority, which is a person identification certificate issuing entity, when the information processing apparatus determines that the person identification certificate has not been received from the person identification certificate authority and stored locally in a local storage device of the information processing apparatus, and stores the person identification certificate issued from the person identification certificate authority in the storage device of the information processing apparatus.

23. (Withdrawn) An information processing apparatus according to Claim 22, wherein, in the process for storing the newly obtained personal identification certificate in the storage means, when said newly obtained person identification certificate is a person identification certificate corresponding to the same user for an existing public key certificate which has already been stored in said information processing apparatus, said information processing apparatus performs a process for creating pair information of identifiers of each certificate and for storing the pair information in the storage device.

24. (Withdrawn) An information processing apparatus according to Claim 22, wherein said information processing apparatus retrieves a public key certificate used for data

communication with an external apparatus with stored data of the storage device of the

information processing apparatus being used as the retrieval target on the basis of user input

information, creates a pair of a public key and a secret key when a corresponding public key

certificate cannot be extracted, transmits the created public key to the certificate authority which

is a public key certificate issuing entity, makes a request for issuing a public key certificate, and

performs a process for storing the public key certificate issued from said certificate authority in

the storage stores of the information processing apparatus.

25. (Withdrawn) An information processing apparatus according to Claim 24, wherein,

in the process for storing the newly obtained personal identification certificate in the storage

device, when said newly obtained person identification certificate is a person identification

certificate corresponding to the same user for an existing public key certificate which has already

been stored in said information processing apparatus, said information processing apparatus

performs a process for creating pair information of identifiers of each certificate and stores the

pair information in the storage device.

26. (Withdrawn) An information processing apparatus according to Claim 24, wherein,

in the process for storing the newly obtained personal identification certificate in the storage

device, when said newly obtained person identification certificate is a person identification

certificate corresponding to the same user for an existing public key certificate which has already

been stored in said information processing apparatus, said information processing apparatus

performs a process for creating pair information of identifiers of each certificate, stores the pair

information in the storage device, and registers together a process identifier which identifies a

process such as services to be used.

27. (Withdrawn) A program providing medium for providing a computer program for causing a person application authentication data process for performing a person authentication process to be performed in a computer system based on a verification process between a template extracted from a person identification certificate in which the template is stored and user input sampling information, the template being person identification data of an individual user who uses an information processing apparatus, said computer program comprising:

a step for retrieving a person identification certificate used for a person authentication process based on the user input information;

a step for outputting a request for issuing a person identification certificate to a person identification certificate authority, which is a person identification certificate issuing entity, when the information processing apparatus determines that the person identification certificate has not been received from the person identification certificate authority and stored locally in a local storage device of the information processing apparatus;

a step for creating pair information of identifiers of each certificate when said person identification certificate issued from said person identification certificate authority is a person identification certificate corresponding to the same user for an existing public key certificate which has already been stored in said information processing apparatus; and

a step for storing the pair information in the storage device.